IN THE CLAIMS:

Please amend claim 1 and cancel claim 10 as follows:

1. (Currently Amended) A polymer electrolyte fuel cell including a high-temperature portion and a low-temperature portion in a cell plane, said fuel cell comprising:

an oxidant gas passage formed in said fuel cell,

wherein an oxidant gas flow is directed within said oxidant gas passage from said high-temperature portion to said low-temperature portion of the fuel cell so that water produced during operation of the fuel cell recirculates in said oxidant gas passage.

- 2. (Original) A fuel cell according to claim 1, wherein said low-temperature portion is located at a higher position than said high-temperature portion.
- 3. (Original) A fuel cell according to claim 1, wherein said oxidant gas flow direction is reverse to a direction of gravity.
- 4. (Original) A fuel cell according to claim 1, wherein said oxidant gas passage includes an upstream portion and a downstream portion, said upstream portion of said oxidant gas passage being provided with a hydrophilicity-treated portion, and said downstream portion of said oxidant gas passage being provided with a hydrophobicity-treated portion.
- 5. (Original) A fuel cell according to claim 1, wherein said oxidant gas passage includes an upstream portion and a downstream portion, said downstream portion of said oxidant gas passage being provided with a hydrophobicity-treated portion, and further comprising a water drop atomizing device disposed at a location upstream of an inlet of said oxidant gas passage.



- 6. (Original) A fuel cell according to claim 4 or claim 5, wherein said hydrophobicity-treated portion provided to said downstream portion of said oxidant gas passage includes a fluororesin coating formed at a surface of said downstream portion of said oxidant gas passage.
- 7. (Original) A fuel cell according to claim 4, wherein said hydrophilicity-treated portion provided to said upstream portion of said oxidant gas passage includes a silicon dioxide layer formed at a surface of said upstream portion of said oxidant gas passage.
- 8. (Original) A fuel cell according to claim 1, further comprising:
 a fuel gas passage formed in said fuel cell,
 wherein a fuel gas flow is directed from said high-temperature portion to said low-temperature portion.
- 9. (Original) A fuel cell according to claim 1, further comprising: a fuel gas passage formed in said fuel cell, said fuel gas passage including a fuel gas inlet to the cell and a fuel gas outlet from the cell,

wherein a fuel gas flow is directed from said low-temperature portion to said high-temperature portion, and said fuel gas outlet is positioned lower than said fuel gas inlet.

10. (Cancelled)